The right partner for your project.
Drainage and water supply
Always the right solution

It is not only large projects that place high demands on planning and implementation – equipping private homes is often a challenging undertaking as well. In particular, the adjustment to specific conditions calls for the experience gained from numerous projects and the high-quality engineering of an all-in solutions provider. With our many years’ experience as market leader we are ideally equipped to meet the specific requirements of complex systems and develop comprehensive solutions for your building.

With our wide product range we can also find the right products to equip your property – energy-efficient and reliable. For many years we have been partners of installation contractors, specialist suppliers and private individuals who we not only supply with our high-quality products, but can also offer expert advice. Research and development give us the assurance that we can offer full, cost-effective solutions in all fields: from water supply through drainage to heating and air-conditioning.

But since products alone do not make a full-range supplier, we also attach great importance to customer service. With our 15,000 employees in over 100 countries and our partner companies we develop individual solutions to meet all requirements. This also enables us to find the right solution for your project and optimise your entire hydraulic system, so you can make the most of your savings potential.

All information on drainage and water supply with KSB can be found in this brochure. And if you need further information, we will be delighted to offer you our advice.

KSB is a brand name partner of the German trade seal quality alliance “Handwerkermarke”. Numerous KSB products have been certified for top quality and excellent service.
A convincing choice of products – from wet to dry
**Ama-Drainer® N 301/N 358**

Floodable, submersible waste water pump, optional automation with LevelControl Basic 2 control unit including alarm

**Applications**
Disposal of waste water containing solids with a particle size of 10 to 35 mm

**Benefits**
- Absolutely tight: magnetic float switch with variable level control and maximum travel stop
- Easy to connect: 5 or 10 metre power cable
- Highly reliable: also suitable for operation with the pump not submerged (jacket cooling)
- Space-saving: includes swing check valve

**Technical data**

<table>
<thead>
<tr>
<th>DN:</th>
<th>1¼–1½</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 16.5</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 12</td>
</tr>
<tr>
<td>Height:</td>
<td>325 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>214.5 mm</td>
</tr>
</tbody>
</table>

**Ama-Drainer 400/500**

Floodable, submersible waste water pump, optional automation with LevelControl Basic 2 control unit including alarm

**Applications**
Disposal of waste water containing solids with a particle size of 10 to 35 mm

**Benefits**
- Maintenance-free: grease-packed bearings sealed for life
- Jacket cooling for operation with the pump not submerged, retrofit option for conversion to cooled variant
- Robust and reliable: also suitable for waste water containing coarse solids

**Technical data**

<table>
<thead>
<tr>
<th>DN:</th>
<th>1¼–2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 47</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 24</td>
</tr>
<tr>
<td>Height:</td>
<td>440 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>300 mm</td>
</tr>
</tbody>
</table>
Ama-Porter
Submersible motor pump, optional automation with LevelControl Basic 2 control unit including alarm

Applications
Waste water transport, waste water disposal

Benefits
- Robust: large, sturdy pump for waste water containing long fibres and solid substances
- The heavyweight of submersible motor pumps
- Fit and forget: automatic, bolt-free connection in combination with KSB duckfoot bend

Amarex
Submersible motor pump, optional automation with LevelControl Basic 2 control unit including alarm

Applications
Waste water transport

Benefits
- Easy replacement of existing pumps, easy to handle: smallest dimensions, intelligent adaptation concept, re-usable and polarised cable entry
- Significant reduction of energy costs by optimised hydraulic system and optimum efficiency
- Replacements quickly available with short delivery times
- Highly reliable with robust cutter or, alternatively, an impeller type with a large free passage

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Ama-Porter</th>
<th>Amarex</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN:</td>
<td>50–65</td>
<td>32–100</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>max. 40</td>
<td>max. 190 (53 l/s)</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 12</td>
<td>max. 49</td>
</tr>
<tr>
<td>Height:</td>
<td>408 mm</td>
<td></td>
</tr>
<tr>
<td>Width:</td>
<td>374 mm</td>
<td></td>
</tr>
<tr>
<td>T °C:</td>
<td></td>
<td>max. 55</td>
</tr>
</tbody>
</table>
**Ama-Drainer-Box**
Floodable waste water lifting unit, optional automation with LevelControl Basic 2 control unit including alarm

**Applications**
Automatic drainage of buildings, disposal of domestic waste water

**Benefits**
- Universal use: single-pump or dual-pump lifting unit for above-floor or underfloor installation for all pumps of the Ama-Drainer series
- Flexible: can be adapted to conditions or constraints on site thanks to level-adjustable, rotatable extension of the underfloor box and graded inlet connections
- A siphon trap integrated in the cover prevents bad odours
- Fast to install: work on site is limited to fitting the inlet and discharge piping and connecting the pump to the power supply

**Ama-Drainer-Box Mini**
Automatic waste water lifting unit for above-floor installation

**Applications**
Automatic drainage of washbasins, showers, washing machines, dishwashers, etc.

**Benefits**
- Fast to install: ready to connect, no accessories required
- Space-saving: low-height design, stable solution, wall or floor mounting
- Free from bad odours: new type of activated carbon filter meeting hygiene requirements, integrated overflow protection
- Flexible: large variety of connection options, 2 inlet nozzle heights, shower connection as a standard
- Service-friendly: maintenance-free Ama-Drainer® N301 submersible motor pump, high availability

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DN:</td>
<td>40/50</td>
<td>40</td>
</tr>
<tr>
<td>DN inlet:</td>
<td>50/70/100/150</td>
<td>50/70/100/150</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>max. 46</td>
<td>max. 46</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 24</td>
<td>max. 6.5</td>
</tr>
<tr>
<td>Volume:</td>
<td>100/200 l</td>
<td>328/460 mm</td>
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<tr>
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</table>
Compacta up to UZ300
Floodable sewage lifting unit, automated with LevelControl Basic 2 control unit including alarm

Applications
Disposal of domestic and industrial waste water

Benefits
■ Space-saving: compact design, easy to install
■ Reliable: dual-pump system, integrated swing check valve, integrated mains-independent alarm and control system with self-diagnosis
■ Optional 10-year spare parts supply
■ Includes y-pipe

mini-Compacta U1.60
Floodable sewage lifting unit, automated with LevelControl Basic 2 control unit including alarm

Applications
Disposal of sewage from toilet facilities below the flood level

Benefits
■ Space-saving: compact dimensions of 510 x 510 mm
■ Easy to install
■ Reliable: integrated swing check valve, integrated mains-independent alarm and control system with self-diagnosis
■ 10-year spare parts warranty
■ Ready to connect
■ Robust, powerful, durable motor

CK packaged pump station
Ready-to-connect pump station, automated with LevelControl Basic 2 control unit including alarm

Applications
Automatic drainage of buildings, disposal of waste water below the flood level

Benefits
■ Corrosion-resistant, durable, low-weight, compact pump station
■ Versatile: free choice of locations with tank cover in 3 load classes for foot traffic/cars/trucks
■ Flexible: optional tank extensions enable installation depths of up to 2,700 mm
■ Several inlet nozzles at different heights

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>80</th>
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<tbody>
<tr>
<td>DN inlet:</td>
<td>3 x 100/150 graded</td>
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<tr>
<td>Q m³/h:</td>
<td>max. 70</td>
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<tr>
<td>H m:</td>
<td>max. 25</td>
</tr>
<tr>
<td>Height/width:</td>
<td>1,110/1,095 mm</td>
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<tr>
<td>Volume:</td>
<td>300 l</td>
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</table>

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
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</thead>
<tbody>
<tr>
<td>DN inlet:</td>
<td>2 x 50/3 x 100</td>
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<tr>
<td>Q m³/h:</td>
<td>max. 36</td>
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<tr>
<td>H m:</td>
<td>max. 25</td>
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<td>Height/width:</td>
<td>575/510 mm</td>
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<td>Volume:</td>
<td>60 l</td>
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Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>50/65</th>
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<tbody>
<tr>
<td>DN inlet:</td>
<td>6 x 150</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>max. 50 (13.9 l/s)</td>
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<tr>
<td>H m:</td>
<td>max. 39</td>
</tr>
<tr>
<td>Height/width:</td>
<td>1,700–2,700/1,140 mm</td>
</tr>
<tr>
<td>Content:</td>
<td>360 l</td>
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</tbody>
</table>
Water supply

Hya-Solo E
Pressure booster system

Applications
Water supply, rainwater harvesting, service water supply systems

Benefits
- Fast to install: ready to connect
- Reliable and safe: integrated dry running protection
- Easy to adapt to operating conditions: start-up pressure can be set to values ranging from 2 to 3.5 bar

Applications:
Multi Eco
Multistage, self-priming centrifugal pump

Benefits
- Economical: 40% more efficient than jet pumps
- Whisper quiet: 53 dB maximum
- Reliable: long service life ensured by corrosion protection

Applications:
Multi Eco-Top
Automatic domestic water supply system

Benefits
- Durable: long service life ensured by corrosion protection; high operating reliability
- Economical: frequency of starts limited by membrane-type accumulator

Technical data

<table>
<thead>
<tr>
<th>Hya-Solo E</th>
<th>Multi Eco</th>
<th>Multi Eco-Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rp:</td>
<td>Rp:</td>
<td>Rp:</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>Q m³/h:</td>
<td>Q m³/h:</td>
</tr>
<tr>
<td>max. 6</td>
<td>max. 8</td>
<td>max. 8</td>
</tr>
<tr>
<td>H m:</td>
<td>H m:</td>
<td>H m:</td>
</tr>
<tr>
<td>max. 50</td>
<td>max. 54</td>
<td>max. 54</td>
</tr>
<tr>
<td>p bar:</td>
<td>p bar:</td>
<td>p bar:</td>
</tr>
<tr>
<td>max. 10</td>
<td>max. 10</td>
<td>max. 7</td>
</tr>
<tr>
<td>T °C:</td>
<td>Height:</td>
<td>Height:</td>
</tr>
<tr>
<td>max. 60</td>
<td>215 mm</td>
<td>525 mm</td>
</tr>
<tr>
<td></td>
<td>Width:</td>
<td>Width:</td>
</tr>
<tr>
<td></td>
<td>415 mm</td>
<td>570 mm</td>
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</table>

Technical data

<table>
<thead>
<tr>
<th>Rp:</th>
<th>Q m³/h:</th>
<th>H m:</th>
<th>p bar:</th>
<th>Height:</th>
<th>Width:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ¼</td>
<td>max. 6</td>
<td>max. 50</td>
<td>max. 10</td>
<td>215 mm</td>
<td>415 mm</td>
</tr>
<tr>
<td>1–1¼</td>
<td>max. 8</td>
<td>max. 54</td>
<td>max. 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1–1¼</td>
<td>max. 8</td>
<td>max. 54</td>
<td>max. 7</td>
<td>525 mm</td>
<td>570 mm</td>
</tr>
</tbody>
</table>
Multi Eco-Pro
Automatic domestic water supply system

Applications
Water supply, agricultural operations, spray irrigation and washing plants

Benefits
- High level of comfort: quiet, reliable operation
- Easy to survey: pressure gauge display
- Intelligent: pump switched on/off automatically; integrated dry running protection
- Whisper quiet: 53 dB maximum

Technical data
Rp: 1¼
Q m³/h: max. 8
H m: max. 54
p bar: max. 10
Height: 430 mm
Width: 415 mm

Hya-Compact
Fully automatic pressure booster package system

Applications
Drinking water, cooling water, service water

Benefits
- With integrated stand-by pump
- Compact design for wall and floor mounting, with variable speed pumps preventing pressure fluctuations
- Reliable and safe: very maintenance-friendly
- Energy-efficient: savings of up to 35 % in energy costs

Technical data
Rp: 1–1¼
Q m³/h: max. 8
H m: max. 60
p bar: max. 10
T °C: max. 40
Height: 430 mm
Width: Ø 96 mm

SET 100
Spray irrigation set

Applications
Domestic water supply, general and spray irrigation, rainwater harvesting

Benefits
- Reliable and dependable
- Easy to use: automatic control unit with dry running protection, complete set supplied ready to connect with 30 m power cable

Technical data
DN: 100
Q m³/h: max. 6
H m: max. 90
Height: 695 mm
Width: Ø 96 mm
Water supply

Hya-Rain Eco
Rainwater harvesting system

Applications
Rainwater harvesting, spray irrigation, service water utilisation, irrigation systems

Benefits
- High level of comfort: quiet, easy to install, complete with accessories for connection; automatic or manual operation, large range of accessories
- Reliable: automatic, demand-driven mains water back-up system, integrated dry running protection, display of operating pressure

Technical data
<table>
<thead>
<tr>
<th>Rp:</th>
<th>Q m³/h</th>
<th>H m:</th>
<th>Height:</th>
<th>Width:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>max. 4</td>
<td>max. 43</td>
<td>650 mm</td>
<td>410 mm</td>
</tr>
</tbody>
</table>

Hya-Rain
The best of all rainwater harvesting systems

Applications
Rainwater harvesting, spray irrigation, service water utilisation, irrigation systems

Benefits
- High level of comfort: easy to install, complete with accessories for connection and bolt hole pattern; automatic or manual operation
- Reliable: automatic, demand-driven mains water back-up system, integrated dry running protection, display of operating pressure
- Automatic replacement of water in mains water storage tank; display of water level of rainwater storage tank (on Hya Rain N)

Technical data
<table>
<thead>
<tr>
<th>Rp:</th>
<th>Q m³/h</th>
<th>H m:</th>
<th>p bar:</th>
<th>Height:</th>
<th>Width:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>max. 4</td>
<td>max. 43</td>
<td>max. 6</td>
<td>630 mm</td>
<td>410 mm</td>
</tr>
</tbody>
</table>
Ixo 45 E
Submersible motor pump

Applications
Water supply, spray irrigation, rainwater harvesting, water extraction

Benefits
- Submersible pumps are highly reliable due to their suction head operation
- High level of comfort: automatic starting/stopping, dry running protection by connection to Controlmatic automatic control unit, 15-metre power cable

Technical data
<table>
<thead>
<tr>
<th>Rp</th>
<th>1–1¼</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h</td>
<td>max. 8</td>
</tr>
<tr>
<td>H m</td>
<td>max. 65</td>
</tr>
<tr>
<td>Height:</td>
<td>448 mm</td>
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<tr>
<td>Width:</td>
<td>130 mm</td>
</tr>
</tbody>
</table>

Filtra N
Single-stage, self-priming centrifugal pump in close-coupled design

Applications
Recirculation of swimming pool water in filtering systems

Benefits
- Quiet and robust
- Easy to clean: filter basket can be hinged open
- Transparent lid makes contamination level easy to detect

Technical data
<table>
<thead>
<tr>
<th>Rp</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h</td>
<td>max. 36</td>
</tr>
<tr>
<td>H m</td>
<td>max. 21</td>
</tr>
<tr>
<td>p bar:</td>
<td>max. 2.5</td>
</tr>
<tr>
<td>T °C:</td>
<td>max. 35</td>
</tr>
<tr>
<td>Height:</td>
<td>295 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>512.5 mm</td>
</tr>
</tbody>
</table>
Valves from KSB

Our valves also contribute to the energy efficiency of the complete system.

In the KSB product range you will find the matching shut-off and control valves for your entire building. They match the flow rate to demand and thus optimise the efficiency of the whole system. In this way, they increase the overall efficiency of your system and save lots of energy!

Service from start to finish – wherever you are

KSB is an all-in solutions provider. This means that, with us, you can count not only on outstanding products, but also on optimal service – from commissioning through inspection and maintenance work to the repair of pumps of any make – including provision of spare parts.

Stay on the safe side with KSB Service

Our own service specialists and the experts of our regional service partners are at your disposal 24/7 and make sure your system also runs safely and reliably in the long term.

- Trained service staff
- Individual service concepts
- Original KSB spare parts
- 24/7

www.ksb.com/service
A system’s quality is not only determined by its products but also by its energy efficiency. In these times of rising energy prices, saving energy costs during operation has become a key criterion for selecting and installing systems. We make full use of a system’s energy saving potential by employing the five modules of FluidFuture® – KSB’s energy efficiency concept. We analyse the entire hydraulic system and optimise it with high-efficiency products and demand-driven operating modes which perfectly match the specific requirements of each system.

**The ErP ecodesign regulations**

FluidFuture® is based on products which are not only reliable but also highly efficient to counter the continuous rise of the global energy consumption of “Energy-related Products” – products with high energy requirements. The ErP regulations stipulate mandatory minimum efficiency levels, which will gradually be increased until 2020. The objectives:

- 20 % fewer greenhouse gases
- 20 % more renewable energies
- 20% less energy consumption

Our response to these high requirements: expertise and years of experience. The outcome: highly efficient products which meet or even exceed the minimum efficiency levels for 2015, already today.

**For standardised water pumps, the following values apply:**

- MEI (minimum efficiency index):
  - high value = high efficiency
  - From 1 January 2013: MEI ≥ 0.10
  - From 1 January 2015: MEI ≥ 0.40

**For electric motors, the following codes apply:**

- IE4 = Super premium efficiency
- IE3 = Premium efficiency
- IE2 = High efficiency

- From 1 January 2015:
  - IE3 or IE2 with frequency inverter P = 7.5 kW – 375 kW
  - From 1 January 2017:
  - IE3 or IE2 with frequency inverter P = 0.75 kW – 375 kW